PTO/SB/05 (06-03) Approved for use through 07/31/2003. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to resp ond to a collection of information unless it displays a valid OMB control number. 64032/P008US/10307656 Attorney Docket No. UTILITY First Inventor Yi Gona PATENT APPLICATION LOCATION POSITIONING IN WIRELESS Title TRANSMITTAL **NETWORKS** (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No EV256032336US MS Patent Application APPLICATION ELEMENTS Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria, VA 22313-1450 CD-ROM or CD-R in duplicate, large table or Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. Nucleotide and/or Amino Acid Sequençe Submission See 37 CFR 1.27. (if applicable, all necessary) Computer Readable Form (CRF) Specification [Total Pages 3. Х (preferred arrangement set forth below)
- Descriptive title of the invention b. Specification Sequence Listing on: Cross Reference to Related Application: CD-ROM or CD-R (2 copies); or Paper Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, Statements verifying identity of above copies or a computer program listing appendix Background of the Invention **ACCOMPANYING APPLICATIONS PARTS** - Brief Summary of the Invention - Brief Description of the Drawings (if filed) Assignment Papers (cover sheet & document(s)) Х - Detailed Description 37 CFR 3.73(b) Statement Power of Claim(s) 10 Х - Abstract of the Disclosure (when there is an assignee) Attorney X Drawing(s) (35 U.S.C. 113) 11. English Translation Document (if applicable) Total Sheets Copies of IDS Information Disclosure X Citations 5 Oath or Declaration 12. Total Sheets х Statement (IDS)/PTO-SB/08 13 Preliminary Amendment Newly executed (original or copy) Copy from a prior application (37 CFR 1.63(d)) Return Receipt Postcard (MPEP 503) (for continuation/divisional with Box 18 completed) (Should be specifically itemized) Certified Copy of Priority Document(s) 15 DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). inventor(s) named in the prior application. 16. see 37 CFR 1.63(d)(2) and 1.33(b). Applicant must attach form PTO/SB/35 or its equivalent. Checks in the amount of \$2,526.00 & Other: \$40.00 Application Data Sheet. See 37 CFR 1.76 Х 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Art Unit: For CONTINUATION or DIVISIONAL APPS only. The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number: OR X | Correspondence address below FULBRIGHT & JAWORSKI L.L.P. Name R. Ross Viguet 2200 Ross Avenue, Suite 2800 Address

| ountry US         |                | Telephone | (214) 855-8000                | Fax  | (214) 855-8200 |  |  |  |  |
|-------------------|----------------|-----------|-------------------------------|------|----------------|--|--|--|--|
| Name (Print/Type) | R. Ross Viguet |           | Registration No. (Attorney/Ag | ent) | 42,203         |  |  |  |  |
| Signature         | 12200          | · · ·     | Date                          | A    | ugust 6, 2003  |  |  |  |  |

TX

**Utility Patent Application Transmittal** 

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV256032336US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Signature:

Dated: August 6, 2003

**Dallas** 



\_ (John Pallivathukal)

Zip Code | 75201-2784

City

PTO/SB/17 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

| ### FEE TRANSMITTAL ### Company Properties   Properties   Properties   ### Company Properties   Properties   Properties   ### Code   Properties   Properties   Properties   ### Code   ### Code   Properties   ### Code   ### Code   Properties   ### Code         | Under the Paperwork Reduction Act of 1995, no persons are requ | irea to                   | respond                 | to a co              | lection c   |                                       |                        |                         | ntrol number.                                |
|--|--|---------------------------|-------------------------|----------------------|-------------|---------------------------------------|------------------------|-------------------------|--|
| Filing Date   August 6, 2003   First Named Inventor   Yi Gong   Applicant claims small entity status. See 37 CFR 1.27   Applicant claims small entity status. See 37 CFR 1.27   Applicant claims small entity status. See 37 CFR 1.27   Attorney Docket No.   64032/PO88US/10307656  |  |                           |                         | Complete if Known    |             |                                       |                        |                         |  |
| First Named Inventor   |  |                           |                         | Application Number   |             |                                       | Not Yet Assigned       |                         |  |
| Priss Named Inventor   |  |                           |                         | Filing Date          |             |                                       | August 6, 2003         |                         |  |
| Applicant claims small entity status. See 37 CFR 1.27  TOTAL AMOUNT OF PAYMENT (\$) 2728.00  Attorney Docket No. 64032/P08US/10307656  METHOD OF PAYMENT (check all find apply)  X Check Coard Mosey One International Mosey Check all find apply)  X Check Coard Mosey One International Mosey One Int        | l .  |                           |                         | First Named Inventor |             |                                       | Yi Gong                |                         |  |
| NetTHOD OF PAYMENT (sheek all that apply)  |  |                           | Exam                    | iner N               | ame         |                                       | Not Yet A              | ssigned                 |  |
| Check  | Applicant claims small entity status. See 37 CFR 1.27          |                           |                         | Art Unit             |             |                                       | N/A                    |                         |  |
| Cheek  | TOTAL AMOUNT OF PAYMENT (\$) 2728.00                           | Attomey Docket No.        |                         |                      |             | o.                                    | 64032/P008US/10307656  |                         |  |
| None   Card   Card   Other   None   Other   None   Other   O           | METHOD OF PAYMENT (check all that apply)                       |                           |                         |                      |             | CALCUL                                | <del></del>            |                         |  |
| Deposit   Cooling   Cocount   Cocount   Cocount   Cocount   Fulbright & Jaworski L.L.P.   1051   130   2051   55   55   2052   25   55   Surcharge - late filing fee or cover sheet.   1052   500   2052   25   25   25   25   2   | V Check Credit Money Other None                                |                           |                         |                      |             |                                       |                        |                         |  |
| Large Entity   Repetition   Fee Paid   Page   Pag           | CaroOrder  |                           |                         |                      |             |                                       |                        |                         |  |
| Fee            | [ L_J '  | Large Entity Small Entity |                         |                      |             |                                       |                        |                         |  |
| Part              |  | Fee                       | Fee                     | Fee                  | Fee         | -                                     | Fee Desc               | rintion                 |  |
| Fulbright & Jaworski L.L.P.  |  | Code                      | (\$)                    | Code                 | (\$)        |                                       | T CC DC3C              | прион                   | Fee Paid                                     |
| Charge fee(s) indicated below   X   Credit any overplayments   1053   130   1053   130   Non-English specification   | Account   Fulbright & Jaworski L.L.P.                          | 1051                      | 130                     | 2051                 | 65          | Surcharge -                           | late filing fee        | e or oath               |  |
| Charge fee(s) indicated below   X   Credit any overpayments   1053   130   1503   1504   15           | Name   | 1052                      | 50                      | 2052                 | 25          |                                       | - late provisio        | nal filing fee or cover |  |
| Substitution   Subs           |  | 1053                      | 130                     | 1053                 | 130         |                                       | specification          | 1 .                     |  |
| Substitute   Sub           |  | 1812                      | 2,520                   | 1812                 | 2,520       | •                                     | •                      |                         |  |
| Charge feets) indicated below, except for the filling fee to the above-identified deposite account.  | application  | 1                         |                         | ĺ                    |             | Requesting                            | publication o          |                         | <u> </u>                                     |
| 1. BASIC FILING FEE  |  |                           |                         |                      |             | Requesting                            | ction<br>publication o | f SIR after             | <del></del>                                  |
| 1. BASIC FILING FEE   1279 ENTITY   Small Entity   1283   1292   203   2253   265   Extension for reply within second month   1284   1285              | <u> </u>   | 1                         |                         |                      |             | Examiner a                            | ction                  |                         |  |
| Large Entity   |  | 4                         | ì                       |                      |             |                                       |                        |                         |  |
| Fee            |  | l                         |                         |                      |             |                                       |                        |                         |  |
| Code   (\$)   Code   Code   (\$)   Code   Cod |  | 1                         |                         |                      |             |                                       |                        |                         | <b></b>                                      |
| 1002   330   2002   165   Design filling fee   1401   320   2401   160   Notice of Appeal   1402   320   2402   160   Filling a brief in support of an appeal   1403   280   2403   140   Request for oral hearing   1405   1500   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1452   110   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unavoidable   1453   1,300   2470   2502   235   Design issue fee   1460   1,300   1,300   2501   2502   235   Design issue fee   1460   1,300   1,3           |  | 1254                      | 1,450                   | 2254                 | 725         | Extension for                         | or reply within        | fourth month            |  |
| 1003   520   2003   260   Plant filing fee   1402   320   2402   160   Filing a brief in support of an appeal   1403   320   2402   160   Filing a brief in support of an appeal   1403   280   2403   140   Request for oral hearing   1451   1,510   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1452   110   2452   55   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   2453   650   Petition to revive - univoidable   1453   1,300   1,400             | 1001 750 2001 375 Utility filing fee 750.00                    | 1255                      |                         |                      | 985         | Extension for                         | or reply within        | i fifth month           | <u> </u>                                     |
| 1004   750   2004   375   Reissue filing fee   1403   280   2403   140   Request for oral hearing   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1452   110   2452   55   Petition to revive – unavoidable   1453   1,300   2453   650   Petition to revive – unintentional   2453   1501   1,300   2453   650   Petition to revive – unintentional   2453   1,300   2453           |  |                           |                         |                      |             | '. ''                                 |                        |                         |  |
| 1451   1,510           | )  | 1                         |                         |                      |             | ·                                     |                        |                         | L  |
| Subtotal (1)   (\$)   750.00   1452   110   2452   55   Petition to revive - unavoidable   1453   1,300   2453   650   Petition to revive - unintentional   2   2   2   2   2   2   2   2   2  |  | l                         |                         |                      |             |                                       |                        |                         | L{   |
| SUBTOTAL (1)   (\$) 750 00   | 1005 160 2005 80 Provisional filing fee                        |                           |                         |                      |             |                                       |                        |                         |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE   Extra   Fee from   Fee Paid   1,300   2501   650   Utility issue fee (or reissue)  | SUBTOTAL (1) (\$) 750.00                                       | !                         |                         |                      |             |                                       |                        |                         | <u> </u>                                     |
| Total Claims   109   -20** =   89   x   18 00   =   1602 00   1503   630   2503   315   Plant issue fee  |  | 1                         | -                       |                      |             |                                       |                        |                         |  |
| Total Claims   |  | ì                         |                         | ì                    |             |                                       | -                      | ie)                     | <u> </u>                                     |
| Nultiple Dependent   7   -3** =   4   x   84.00   =   336.00     1460   130   1460   130   Petitions to the Commissioner   | Claims below Fee Paid  | ł                         |                         |                      |             |                                       |                        |                         |  |
| Claims   | Independent  | ı                         |                         |                      |             |                                       |                        |                         |  |
| Large Entity Small Entity Fee Fee Fee Fee Fee Fee Stoode (\$) Code (\$)  1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 "Reissue independent claims over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent 1205 18 2205 9 Request for continued Examination Other fee (specify)  SUBTOTAL (2) (\$) 1938.00  ***or number previously paid, if greater, For Reissues, see above  1806 180 1806 180 Submission of Information Disclosure Stmt Recording each patent assignment per property (times number of properties)  1802 1809 375 Filing a submission after final rejection (37 CFR 1.129(a))  1810 750 2810 375 For each additional invention to be examined (37 CFR 1.129(b))  1802 900 1802 900 Request for Continued Examination of a design application  Other fee (specify)  **Reduced by Basic Filing Fee Paid **SUBTOTAL (3) (\$) 40.00**  **To number previously paid, if greater, For Reissues, see above  **SUBMITTED BY**  **Registration No. (Attorney/Agent)**  Registration No. (Attorney/Agent)  **According each patent assignment per property (times number of properties)  **Booth Telephone**  **Complete (if applicable)**  **Telephone**  **Complete (if applicable)**  **Telephone**  **Telephone**  **Telephone**  **Registration No. (Attorney/Agent)**  **Telephone**  **Te     |  | 1460                      | 130                     | 1460                 | 130         | Petitions to                          | the Commiss            | ioner                   |  |
| Fee Fee Code (\$) Fee Code (\$) Fee Description  8021 40 8021 40 Recording each patent assignment per property (times number of properties)  40.00  1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 "Reissue independent claims over original patent over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent 1206 18 2205 9 "Reissue claims in excess of 20 and over original patent 1207 SUBTOTAL (2) (\$) 1938.00  *Reduced by Basic Filing a submission after final rejection (37 CFR 1.129(a))  For each additional invention to be examined (37 CFR 1.129(b))  Request for Continued Examination of a design application  Other fee (specify)  *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00  *SUBMITTED BY  *Registration No. (Attorney/Agent)  Registration No. (Attorney/Agent)  *Attorney/Agent)  *Telephone (214) 855-8185  | Multiple Dependent   | l                         |                         |                      |             | _                                     |                        | ,                       |  |
| Code (\$) Code (\$) Property (times number of properties) 1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claims in fnot paid 1204 84 2204 42 "Reissue independent claims over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent 1206 18 2205 9 "Reissue claims in excess of 20 and over original patent 1207 SUBTOTAL (2) (\$) 1938.00 1208 SUBMITTED BY 1209 Registration No. (Attorney/Agent) 1209 Registration No. (Attorney/Agent) 1209 1802 Property (times number of properties) 1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a)) 1800 9750 2809 375 For each additional invention to be examined (37 CFR 1.129(b)) 1810 750 2801 375 Request for Continued Examination (RCE) 1802 900 1802 900 Request for expedited examination of a design application 1802 900 Reduced by Basic Filing Fee Paid 1803 SUBTOTAL (3) (\$) 40.00 1804 Property (times number of property (target)      | Large Entity Small Entity                                      | 1806                      | 180                     | 1806                 | 180         |                                       |                        |                         | <u>                                     </u> |
| 1201   84   2201   42   Independent claims in excess of 3   1809   750   2809   375   (37 CFR 1.129(a))     1810   750   2810   375   For each additional invention to be examined (37 CFR 1.129(b))     1810   750   2810   375   Request for Continued Examination (RCE)     1802   900   1802   900   1802   900   Request for expedited examination   1801   750   2810   375   Request for Continued Examination (RCE)     1802   900   1802   900   1802   900   Request for expedited examination   1801   750   2810   375   Request for Continued Examination   1802   900   1802   900   1802   900   Request for expedited examination   1802   900   1802   900   1802   900   Request for expedited examination   1802   900   1802   900   Request for expedited examination   1801   750   2810   375   Request for Continued Examination   1802   900   1802   900   Request for expedited examination   1802   900   1802   900   Request for expedited examination   1801   750   2810   375   Request for Continued Examination   1802   900   1802   900   Request for expedited examination   1802   900   1802   900   1802   900   Request for expedited examination   1802   900   1802   900   Request for expedited examination   1802   900   1802   900   Request for expedited examination   1802   900   1802   900   1802   900   1802   900   1802   900   1802   900              |  | 8021                      | 40                      | 8021                 | 40          | property (tin                         | nes number d           | of properties)          | 40.00  |
| 1203 280 2203 140 Multiple dependent claims in excess of 3 1204 84 2204 42 "Reissue independent claims over original patent over original patent SUBTOTAL (2) (\$) 1938.00 ***or number previously paid, if greater, For Reissues, see above  SUBMITTED BY  Reissue independent claims in excess of 3 1810 750 2810 375 For each additional invention to be examined (37CFR 1.129(b)) 1801 750 2801 375 Request for Continued Examination (RCE) 1802 900 1802 900 Request for expedited examination of a design application Other fee (specify)  *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00  **Or number previously paid, if greater, For Reissues, see above  SUBMITTED BY  Complete (if applicable)  Registration No. (Attorney/Agent)  Registration No. (Attorney/Agent)   | I •  | 1809                      | 750                     | 2809                 | 375         |                                       |                        | final rejection         |  |
| 1204 84 2204 42 "Reissue independent claims over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$) 1938.00  |  | 1810                      | 750                     | 2810                 | 375         | For each additional invention to be   |                        |                         |  |
| over original patent  1205 18 2205 9 "Reissue claims in excess of 20 and over original patent 2205 (\$) 1938.00 Other fee (specify)  SUBTOTAL (2) (\$) 1938.00 Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00  "Yor number previously paid, if greater, For Reissues, see above  SUBMITTED BY  Registration No. (Attorney/Agent) R. Ross Viguet  Registration No. (Attorney/Agent) 42,203 Telephone (214) 855-8185   | 1  | <b>{</b>                  |                         |                      |             |                                       |                        |                         |  |
| 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent Other fee (specify)  SUBTOTAL (2) (\$) 1938.00   | over original patent   | ł                         |                         |                      |             | · · · · · · · · · · · · · · · · · · · |                        |                         |  |
| SUBTOTAL (2) (\$) 1938.00  **or number previously paid, if greater, For Reissues, see above  SUBMITTED BY  Reduced by Basic Filing Fee Paid  SUBTOTAL (3) (\$) 40.00  Complete (if applicable)  Registration No. (Attorney/Agent)  Registration No. (Attorney/Agent)  Telephone (214) 855-8185   |  | ł                         | of a design application |                      |             |                                       |                        |                         | <b> </b>                                     |
| **or number previously paid, if greater, For Reissues, see above  SUBMITTED BY  Complete (if applicable)  Name (Print/Type) R. Ross Viguet  Registration No. (Attorney/Agent) 42,203  Telephone (214) 855-8185   |  | Į i                       |                         |                      | lina Esa    | Paid                                  | CURTO                  | TAL (2) (4)             | 40.00  |
| SUBMITTED BY  Complete (if applicable)  Name (Print/Type) R. Ross Viguet  Registration No. (Attorney/Agent) 42,203  Telephone (214) 855-8185   |  |                           |                         |                      |             |                                       |                        | 40.00                   |  |
| Name (Print/Type) R. Ross Viguet  Registration No. (Attorney/Agent) 42,203  Telephone (214) 855-8185   | SUBMITTED BY Complete (if applicable)                          |                           |                         |                      |             |                                       |                        |                         |  |
| (Allohoy/Agent)  | <del></del>  |                           |                         |                      | 2,203       |                                       |                        |                         | ,  |
|  | Signature Rayles   | (Adom)                    | oy/Agent/               |                      | <del></del> |                                       | Date                   | <del>`</del>            |  |

## Fee Transmittal

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV256032336US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: August 6, 2003

Signature:

